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NOTICE OF ALLOWANCE AND FEE(S) DUE

45180

7590

12/30/2009

GRIMES & BATTERSBY, LLP 488 MAIN AVENUE Suite 300 NORWALK, CT 06851

EXAMINER				
ABDIN, SHAHEDA A				
ART UNIT	PAPER NUMBER			
2620				

DATE MAILED: 12/30/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532.479	04/22/2005	Wolfgang Tzschoppe	OC005USU	5808

TITLE OF INVENTION: METHOD AND APPARATUS FOR SPATIAL DISPLAY USING A RASTERIZED IMAGING DEVICE AND AN ARRAY OF FILTER ELEMENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

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appropriate. All further	correspondence includir ed below or directed oth	g the Patent, advance o	rders and notification of n	naintenance fees w	ill be n	nailed to the current	nould be completed where correspondence address as arate "FEE ADDRESS" for
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488 MAIN AVE Suite 300			I he	Cert	ificate	of Mailing or Trans	
NORWALK, C	1 06851						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/532,479 TITLE OF INVENTION FILTER ELEMENTS	04/22/2005 I: METHOD AND APP	ARATUS FOR SPATIAI	Wolfgang Tzschoppe L DISPLAY USING A RA	STERIZED IMAG		OC005USU EVICE AND AN AF	5808 RRAY OF
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/30/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
ABDIN, SH	IAHEDA A	2629	345-006000	l			
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address')2 or more recent) attach ND RESIDENCE DATA less an assignee is identih in 37 CFR 3.11. Comp	nge of Correspondence 'Indication form ed. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attoolisted, no name will be THE PATENT (print or type data will appear on the patent of a substitute for filing and (B) RESIDENCE: (CITY)	3 registered patent yely, e firm (having as a gent) and the name method and the name printed. e) ttent. If an assigner assignment.	members of upno name	entified below, the d	ocument has been filed for
Please check the appropr							oup entity 🗖 Government
Advance Order -	To small entity discount p	permitted)	b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attac	ched.	
5. Change in Entity Sta	tus (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no long	per claiming SMAI	I.ENT	ITV status See 37 C	FR 1 27(g)(2)
	d Publication Fee (if requ	ired) will not be accepte	ed from anyone other than the	-			ne assignee or other party in
<u> </u>				Date			
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but irginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est y depending upon the indiv the Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 n idual case. Any con r, U.S. Patent and THIS ADDRESS	ne publi- ninutes mments Fradema . SEND	c which is to file (anto complete, includir on the amount of ti- ark Office, U.S. Dep TO: Commissioner	d by the USPTO to process) ag gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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GRIMES & BAT	TERSBY, LLP		ABDIN, SH	AHEDA A
488 MAIN AVEN	UE		ART UNIT	PAPER NUMBER
Suite 300 NORWALK, CT (06851		2629 DATE MAILED: 12/30/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 726 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 726 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/532,479	TZSCHOPPE ET AL.
Notice of Allowability	Examiner	Art Unit
	SHAHEDA A. ABDIN	2629
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSI or other appropriate co IGHTS. This application	ED in this application. If not included mmunication will be mailed in due course. THIS
1. This communication is responsive to <u>11/06/2009</u> .		
2. ☑ The allowed claim(s) is/are <u>1-27</u> .		
 3. Acknowledgment is made of a claim for foreign priority unanal All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Appli	cation No
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Re	eview (PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	,	
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/06/2009 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.	of Informal Patent Application w Summary (PTO-413), No./Mail Date ner's Amendment/Comment her's Statement of Reasons for Allowance
Shaheda A Abdin	/Richard H	ljerpe/
Examiner Art Unit: 2629	Supervisory	Patent Examiner, Art Unit 2629

Application/Control Number: 10/532,479 Page 2

Art Unit: 2629

DETAILED ACTION

1. The information disclosure field on 11/06/2009 has been entered and considered by Examiner.

Allowable Subject Matter

- 2. Claims 1-27 are allowed.
- 3. The following is an Examiner's statement of reasons for allowance:

Regarding independent claims 1, and 27:

4. The most closest prior art of record Doerfel et al. (US 7046271 B2) discloses an arrangement of an imaging device with the picture elements (i.e. $\alpha_{i,j}$) in a raster rows and columns (i.e. i and j) in pixels render bits of partial information from at least three views of the scene (see the abstract and column 4, lines 20-46), and wavelength filter arrays in rows and columns with filter elements (i.e. β_{pq}) with specified range (i.e. range of visible light, see column 25, lines 40-52).

Kleinberger et al. (US Pub: No: 2002/0030888 A1) discloses a full color flat screen binocular stereoscopic viewing device with color filters and display picture elements (see Fig. 5 and 6, [0182-0183]), but both Doerfel and Kleinberger do not teach or suggest that the **ratio between the areas covered by filter elements**

transparent to light of specified wavelength range and the total area of all filter elements, multiplied by the average number of the different views displayed per row of the raster of pixels is greater than 1.

The reference above singly or combined does not teach the uniquely distinct features of the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issues fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Inquiry

5. Any inquiry concerning this communication or earlier communication from the examiner should be directed to Shaheda Abdin whose telephone number is (571) 270-1673.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard HJerpe could be reached at (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

Application/Control Number: 10/532,479 Page 4

Art Unit: 2629

more information about PAIR system, see http://pari-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shaheda Abdin

12/17/2009

/Richard Hjerpe/

Supervisory Patent Examiner, Art Unit 2629